CORNING

Datasheet

Item no.	99909510-02
Connector type	FM-RG11-CX3 7.5
For cable	Ören HD163 PEF

Frequency Range	0.3 - 3000 MHz
Impedance (Nom.)	75 Ohm
Amp. Rating (measured)	7.5 A @10°C increase
(calculated)	10.6 A @20°C increase

Product photo

Transfer Impedance (CoMeT)	Class A+
	<2.5 mΩ/m @ 5-30MHz
	<0,1 mΩ/item @ 5-30MHz
Screening Attenuation(CoMeT)	Class A++
	>105 dB @ 30-1000MHz
	>95 dB @ 1000-2000MHz
	>85 dB @ 2000-3000MHz

Return Loss (IEC 61169-1)	Better than	Typical
0.3 - 500 MHz	-38 dB	-40.4 dB
500 - 860 MHz	-36 dB	-38.8 dB
860 - 1000 MHz	-35 dB	-38.1 dB
1000 - 1750 MHz	-30 dB	-32.6 dB
1750 - 2150 MHz	-28 dB	-30.7 dB
2150 - 3000 MHz	-25 dB	-27.5 dB

Insertion Loss Max.	Better than	Typical
0.3 - 500 MHz	-0.05 dB	-0.01 dB
500 - 860 MHz	-0.06 dB	-0.01 dB
860 - 1000 MHz	-0.06 dB	-0.01 dB
1000 - 1750 MHz	-0.07 dB	-0.02 dB
1750 - 2150 MHz	-0.17 dB	-0.12 dB
2150 - 3000 MHz	-0.20 dB	-0.15 dB

Temperature	
Installing	-5° to +50° C
Operating	-40° to +70° C
Storing	-40° to +70° C

Intermodulation	IM3	IP3-value
3rd Order (@2x+20dBm)	-155 dBc	

Inner Conductor Resistance (@ 1 A DC)	<1.0 mΩ
Sealing Test (IEC IP-code)	IP X8 30 meter / 8 hours
Insulation Resistance (@ 500 VDC)	> 200 GΩ
Dielectric Strength DC Test Voltage	3,0 KV
O-rings	EPDM

Base Material	
Body Parts	Brass CuZn39Pb3 / Tin bronce / POM
Inner Conductor	Brass CuZn39Pb3
Max. Tensile Strength Overall	>35 Kgf
	>343 N
Plating	
Body Parts	Nitin-6
Inner Conductor	Nitin-6
Torsional Strength (Connector / Cable)	* NATM
Insulators	PE / POM
Test performed by	Søren B. Sørensen
Date of release	March 05, 2018

Remarks * Not Able To Measure(NATM): The cable starts to twist without the connector loosing its grip.

Connector designed according to the standard IEC 61169-24 (type F)
All tests performed using instruments calibrated in accordance to our ISO 9001 certification.
Further technical specifications and installation instructions can be obtained on request.

ISO 9001:2008 / ISO 14001 certified

Distributor:

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Test of: Coupling transfer function (Ed.2)

Information for test

Test Job:	Operator: Søren B. Sørensen	Measurement:	01.03.2018 10:32:31
Test set-up:	Rohdr&Schwarz ZNB8, CoMeT40, Bedea S.W. 3.2.5	Calibration:	01.03.2018 10:29:42
Remark:	Analysator:		ROHDE & SCHWARZ - ZNB8 (Only 4-Port)

Device under test

Item Number:	999510-02	Type:	coaxial
Cable type:	Ören HD163 PEF	Impedance:	75.0 Ohm

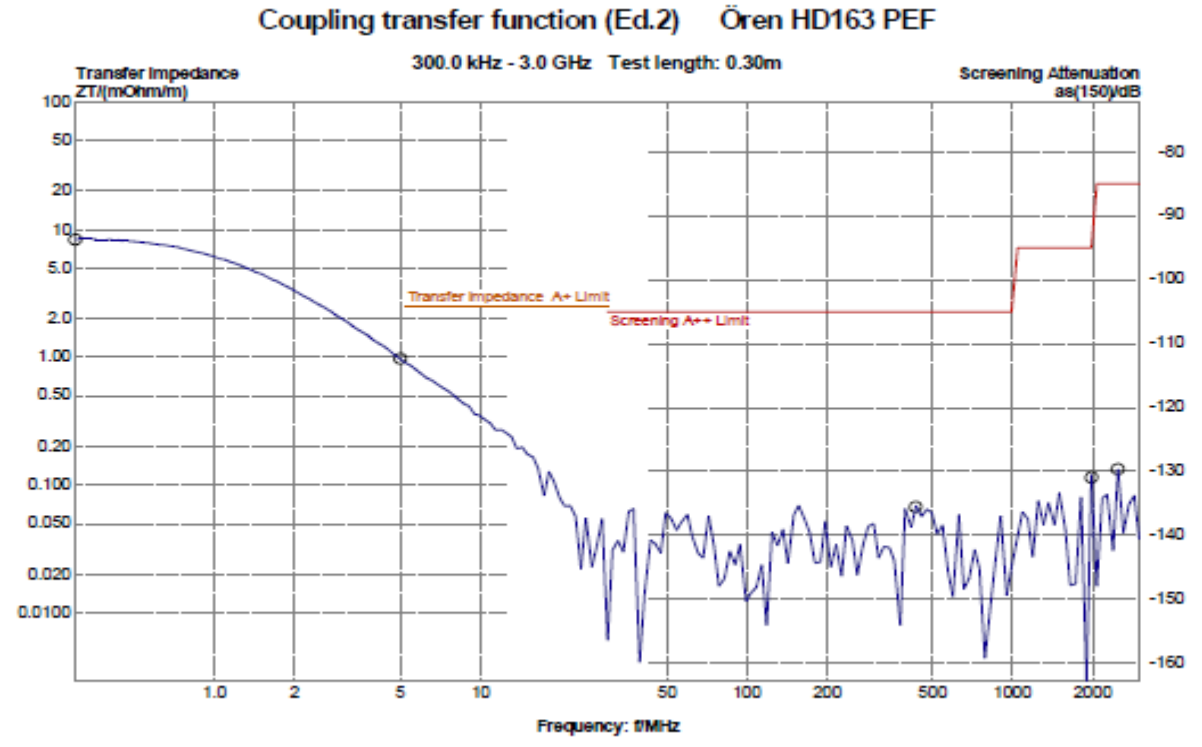
Test parameter

Start frequency:	300.0 kHz	Test length:	0.30 m	Add. parameter of transfer impedance:			
Stop frequency:	3.0 GHz	Atten.(P1/P2):	0.0 dB	Test-setup: Short-Matched			
Number of points:	201			R1(Z1):	74.5 Ohm	R(NWA):	50.0 Ohm
Distance of points:	log			R2:	0.0 Ohm	Eps r2:	0.0
IF-BW:	10 Hz	Eps r:	118.0	Rp	- - -	Z2:	0.0 Ohm
Gen. Power:	5.0 dBm			Rs:	- - -	lex:	0.0 m

Markerdata

f/MHz	ZT/(mOhm/m), as(150)/dB
0.30	8.44
5.00	0.982
432.60	-136
1984.00	-131
2495.00	-130

Test diagram



Test Document: 99909510-02 on HD163 PEF.mdo

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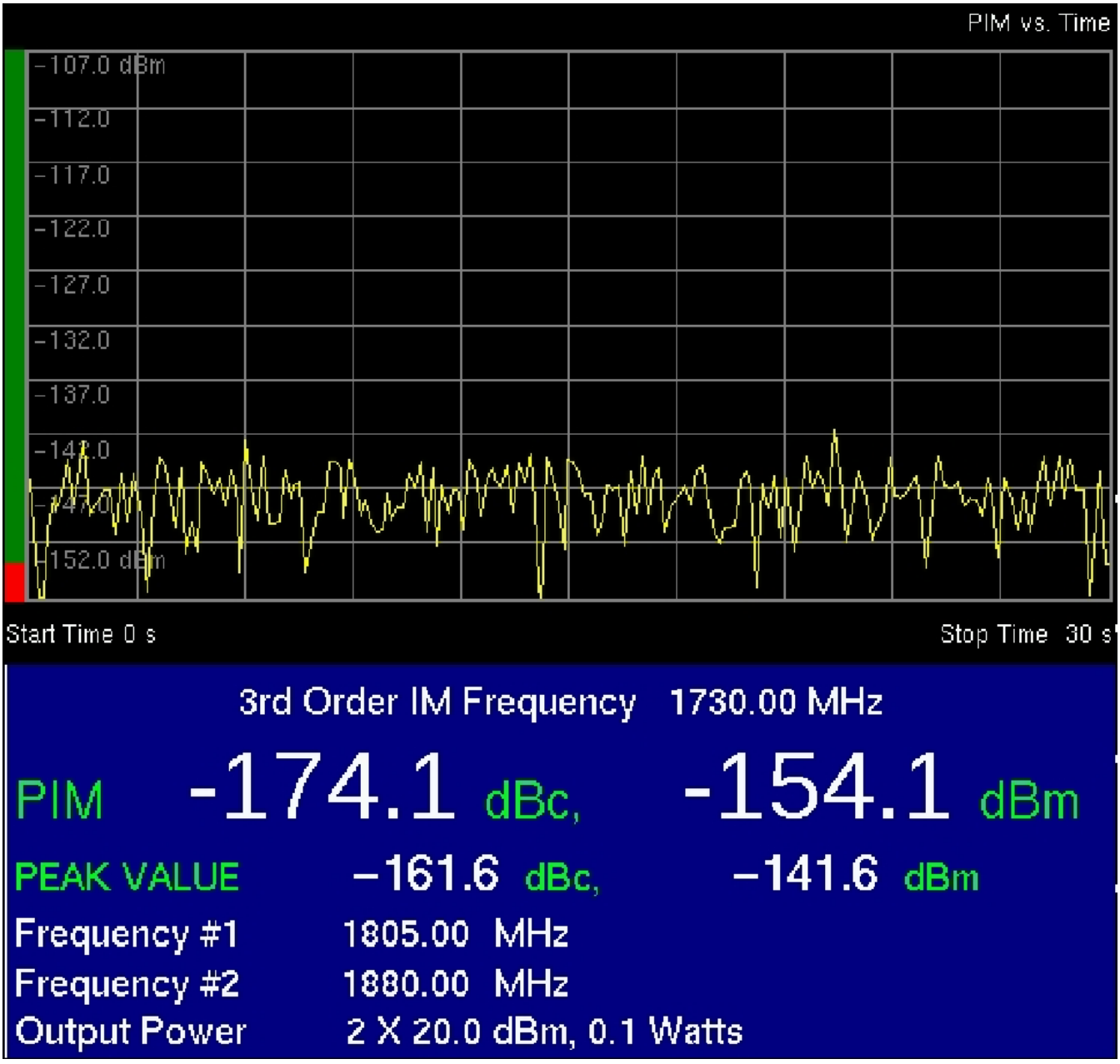

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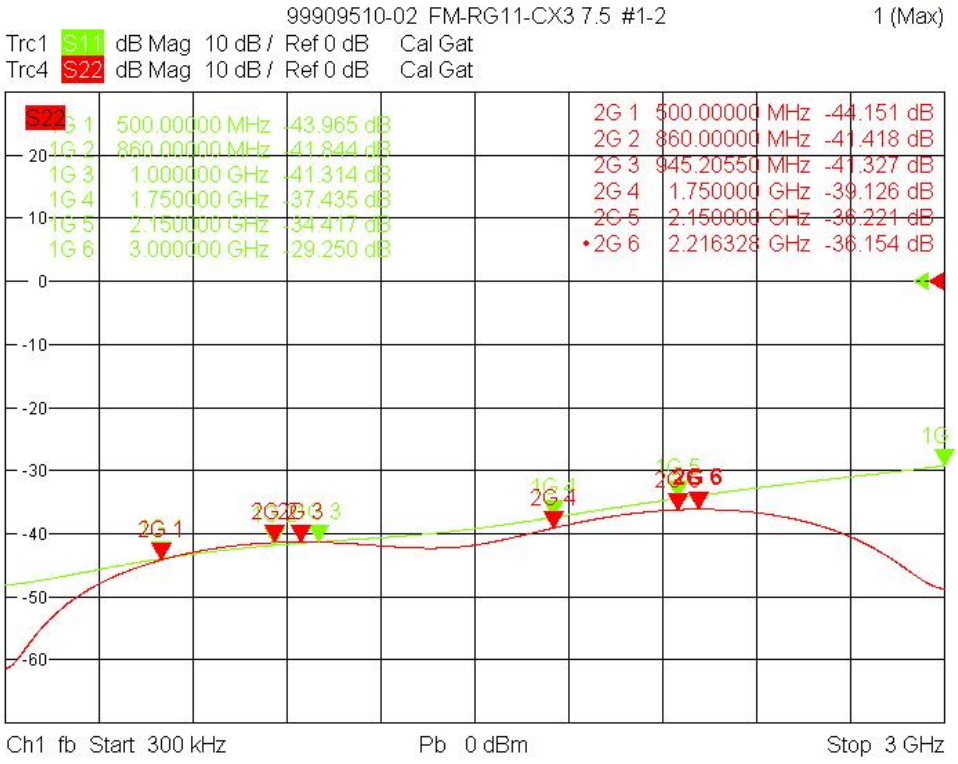

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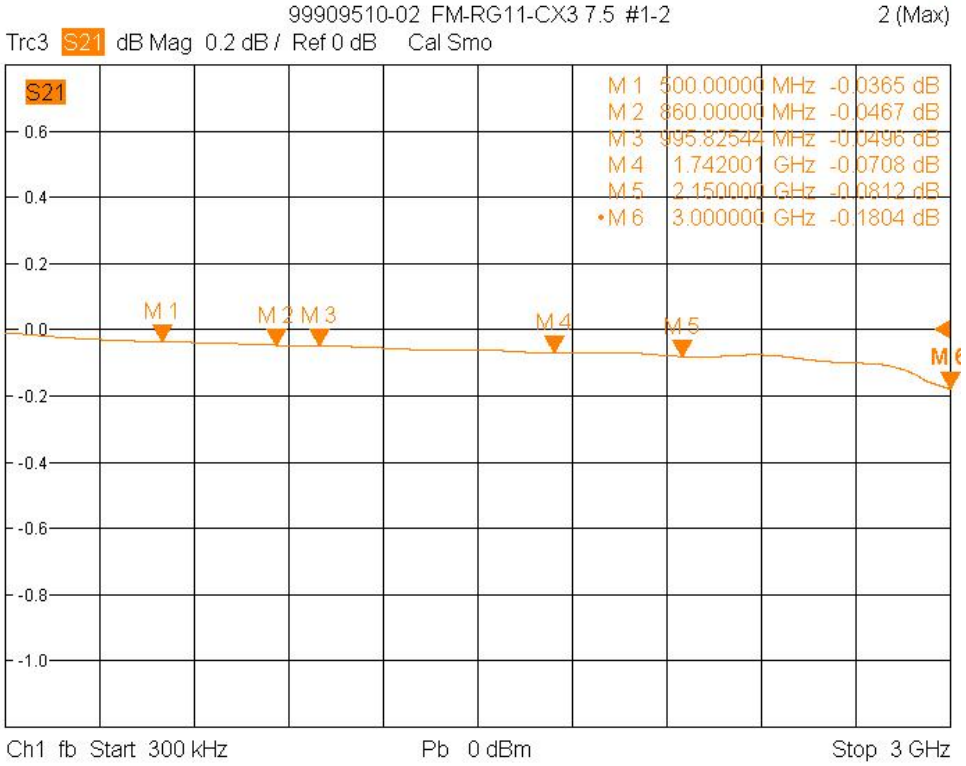

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